

6 December 2018

Mr. Jason Pelton New York State Department of Environmental Conservation Division of Solid & Hazardous Materials 625 Broadway Albany, NY 12233-7252

Subject: GROUNDWATER DISCHARGE MONITORING/AIR EMISSION REPORT

GM-38 AREA, NWIRP BETHPAGE, NY; DER SITE # 1-30-003B-OU 2

NOVEMBER 2018 REPORTING PERIOD

Dear Mr. Pelton:

KOMAN Government Solutions, LLC (KGS) is submitting this monthly monitoring report of the groundwater discharge and air emission results for the Groundwater Treatment Plant (GWTP) located at the Former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY, GM-38 Area. This report was prepared in accordance with GWTP operational requirements for DER Site # 1-30-003B-OU 2, and the SPDES Permit Equivalent # 13003B.

GWTP operational data from 1 November to 30 November 2018 are presented in Attachment A. In the November reporting period, no significant downtime was recorded for the GM38.

As indicated in Attachment A, all SPDES permitted constituents were in compliance with regulatory guidelines during this reporting period.

Please contact me at 610-400-0622 with any questions or concerns you may have regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Stephane Roy

Project Manager

Attachment A: Groundwater and Air Sampling Results from November 2018

Cc: S. Edwards, NYSDEC

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ATTACHMENT A GROUNDWATER AND AIR SAMPLING RESULTS NOVEMBER 2018

GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant - Bethpage, NY Discharge Monitoring Report

November	2018

SPDES Parameters		November 2018 ⁽¹⁾					
Process Stream	Daily Treated Effluent Maximum ⁽¹⁾	Units	RW-1	RW-3 ⁽²⁾	Combined Influent (3) (RW-1 + RW-3)	Treated Effluent	
Well Depth	N/A	ft	445	530	N/A	N/A	
Screened Interval	N/A	ft bgs	335-395 410-430	392-412 442-504	N/A	N/A	
Sampling Date	N/A		11/1/18				
Effective Flowrate	1100	GPM	672	186	859	903	
Total Flow	N/A	gallons	29,048,100	8,049,500	37,097,600	39,029,200	
рН	5.5 - 8.5	SU	4.97	5.09	4.88	6.16	
Chloroform	5	μg/L	0.390 J	0.290 J	0.368 J	ND (1.0)	
1,1-Dichloroethane	5	μg/L	1.52	2.01	1.63	ND (1.0)	
1,2-Dichloroethane	0.6	μg/L	0.230 J	ND (1.0)	0.180 J	ND (1.0)	
1,1-Dichloroethene	5	μg/L	0.990 J	1.27	1.05	ND (1.0)	
cis 1,2-Dichloroethene	5	μg/L	5.37	1.60	4.55	ND (1.0)	
trans 1,2-Dichloroethene	5	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	
Tetrachloroethene	5	μg/L	17.8	ND (1.0)	13.9	ND (1.0)	
1,1,1-Trichloroethane	5	μg/L	0.590 J	0.700 J	0.614 J	ND (1.0)	
Trichloroethene	5	μg/L	75.8	178	98.0	ND (1.0)	
1,1,2-Trichlorotrifluoroethane	5	μg/L	ND (1.0)	0.760 J	0.16 J	ND (1.0)	
Vinyl Chloride	2	μg/L	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	
1,4-Dioxane		μg/L	NS	NS	NS	2.9	
Mercury	0.00025	mg/L	ND (0.00010)	ND (0.00010)	ND (0.00010)	ND (0.00010)	
Total Suspended Solids (TSS)	N/A	mg/L	ND (1.0)	2.2	0.5	ND (1.0)	

Notes

- J Estimated result between laboratory method detection limit and reporting limit
- $\ensuremath{\mathsf{D}}$ Concentration is a result of a dilution.
- ND Not detected above laboratory method detection limit. Reporting Limit (RL) given in parentheses.
- NR Not Recorded
- N/A Not Applicable
- NS Not Sampled
- (1) Wastewater discharge equivalence permit renewed on 18 August 2017. Discharge limits established for 10 years. Chloroform, 1,4-dioxane and 1,1,2-trichlorotrifluoroethane are now monitored under the new permit.
- (2) Well RW-3 was placed back in operation on 1 June, 2018.
- (3) Influent concentrations presented are the weighted average concentrations of RW-1 and RW-3.

GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant - Bethpage, NY Air Sampling Results November 2018

DAR Parameters		Discharge Goal ⁽¹⁾	November 2018	
Process Stream			Influent	Effluent
Sampling Date			11/1/18	
Average Flowrate	CFM	N/A	NR	9,573
Total Flow	ft ³	N/A	NR	413,535,086
Total Flow	m ³	N/A	NR	11,710,010
1,2-Dichloroethane	μg/m³	N/A	3.9 J	ND
cis 1,2-Dichloroethene	μg/m³	> 100,000 (2)	62	30
trans 1,2-Dichloroethene	μg/m³	> 100,000	ND	ND
1,2-Dichloroethene (total)	μg/m³	>100,000	63	30
Toluene	μg/m³	N/A	ND	ND
Total Xylene	μg/m³	N/A	ND	ND
1,1,2-Trichloroethane	μg/m³	N/A	ND	ND
Trichloroethene	μg/m³	2,600	1400	ND
Vinyl Chloride	μg/m³	560	ND	ND
Tetrachloroethene	μg/m³	5,100	190	ND

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

J - Estimated result between laboratory method detection limit and reporting limit

N/A - Not Applicable

NR - Not recorded

- (1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.
- (2) Discharge goal is for total 1,2-Dichloroethene.

GM-38 Area Groundwater Remediation Groundwater Treatment Plant Naval Weapons Industrial Reserve Plant - Bethpage, NY Controlled Stack Emissions November 2018

DAR Parameters	Units	Discharge Goal ⁽¹⁾	November 2018
Sampling Date			11/1/18
Average Flowrate	CFM	N/A	9,573
Total Flow	ft ³	N/A	413,535,086
Total Flow	m ³	N/A	11,710,010
Trichloroethene	lb/hr	0.09	0.00000
Vinyl Chloride	lb/hr	0.02	0.00000
1,2 Dichloroethene	lb/hr	11	0.00104
1,2-Dichloroethane	lb/hr	N/A	0.00000
Toluene	lb/hr	N/A	0.00000
Total Xylene	lb/hr	N/A	0.00000
1,1,2-Trichloroethane	lb/hr	N/A	0.00000
Tetrachloroethene	lb/hr	0.18	0.00000

Notes:

CFM - cubic feet per minute

DAR - Division of Air Resources

N/A - Not Applicable

(1) Discharge goal as approved by NYSDEC's letter dated 31 October 2013.